



Technical Services, LLC

93 South Main Street
Waterbury, VT 05676
Tel: 802-244-7453
Fax: 802-244-7492

99 - 2729
JUN 6 7 48 AM '00

WASTE MANAGEMENT
DIVISION
June 5, 2000

Mr. Chuck Schwer
Director, Waste Management Division
Department of Environmental Conservation
State of Vermont Agency of Natural Resources
Waterbury, Vermont 05671-0404

**RE: Subsurface Investigation Results
Montpelier Federal Building
Facility ID #2330
87 State Street, Montpelier, Vermont**

Dear Mr. Schwer:

On May 19, 2000, EIV Technical Services (EIV) personnel directed a limited subsurface investigation at the above referenced facility. This investigation was completed in response to the State of Vermont Department of Environmental Conservation's request for additional information concerning soil and groundwater conditions at the site.

Previous work at the site during renovations included the in-place closure of a 10,000-gallon underground storage tank (UST) used for heating oil. The tank was closed in-place due to its location near/under a concrete structure associated with the loading dock at the facility. The UST is contained within this concrete structure and during closure, soil contamination was noted adjacent to the tank. No subsurface investigation was completed outside of the retaining structure at that time. EIV's investigation was completed at the request of the DEC to determine if the contamination had left the retaining structure.

Physical Setting The Montpelier Federal Building is located at 87 State Street in downtown Montpelier, Vermont. The building is located on the north side of State Street, to the west of River Road. The setting is urban in nature, in that most of the surrounding land is occupied by buildings, parking lots, or roadways. The area immediately surrounding the site is commercial.

Description of Work EIV's investigation included advancing one boring to approximately 16' below ground surface (bgs) in accordance with work plans dated April 20, and May 2, 2000. The approximate location of the soil boring is indicated on the attached sketch of the site. Soils were screened in the field with a H-Nu photoionization detector (PID) for the presence of VOCs. Soils were recovered with a split spoon sampler, and samples were screened from 2.5 feet bgs to 16' bgs at approximate intervals of 1 foot. Due to the low level of VOCs detected by PID, a soil sample was collected at the groundwater level for laboratory analysis.

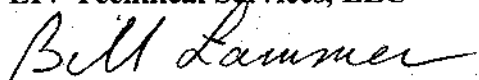
Field Screening Results Field screening of soils from the boring revealed no soil samples with VOC levels in excess of 0.5 ppmV. No evidence of contamination was detected by PID to a depth of 10 feet bgs. VOCs were detected at a concentration of 0.5 ppmV by PID at 11.5 feet bgs, the approximate location of groundwater. However, continued screening of soils, to 16 feet, revealed no evidence of contamination. There was no visual or olfactory evidence of petroleum contamination during the investigation. Please see the attached soil-boring log for additional soils information.

Laboratory Results A soil sample was collected from the apparent location of the groundwater table, at approximately 11.5 feet bgs. This sample was stored in a cooler and transported to Endyne, Inc, of Williston, Vermont for analysis via Method SW 8260 for 8021B analytes, and Method SW 8015B for TPH 8015 DRO. Total petroleum hydrocarbons were detected at a concentration of 150 mg/kg (ppm). No 8021B target parameters were detected above method detection limits. No unidentified peaks were recorded during the analysis. A complete copy of the laboratory results is attached.

Recommendations Based on the site work completed, EIV believes that this site does not warrant further investigation, and respectfully requests that the site be granted a Sites Management Activities Completed (SMAC) designation.

If you have any questions, or require additional information, please feel free to contact our office.

Sincerely,
EIV Technical Services, LLC



Bill Lammer
Environmental Engineer

Attachments

C: Jack Barnes, Catamount Construction for General Services Administration

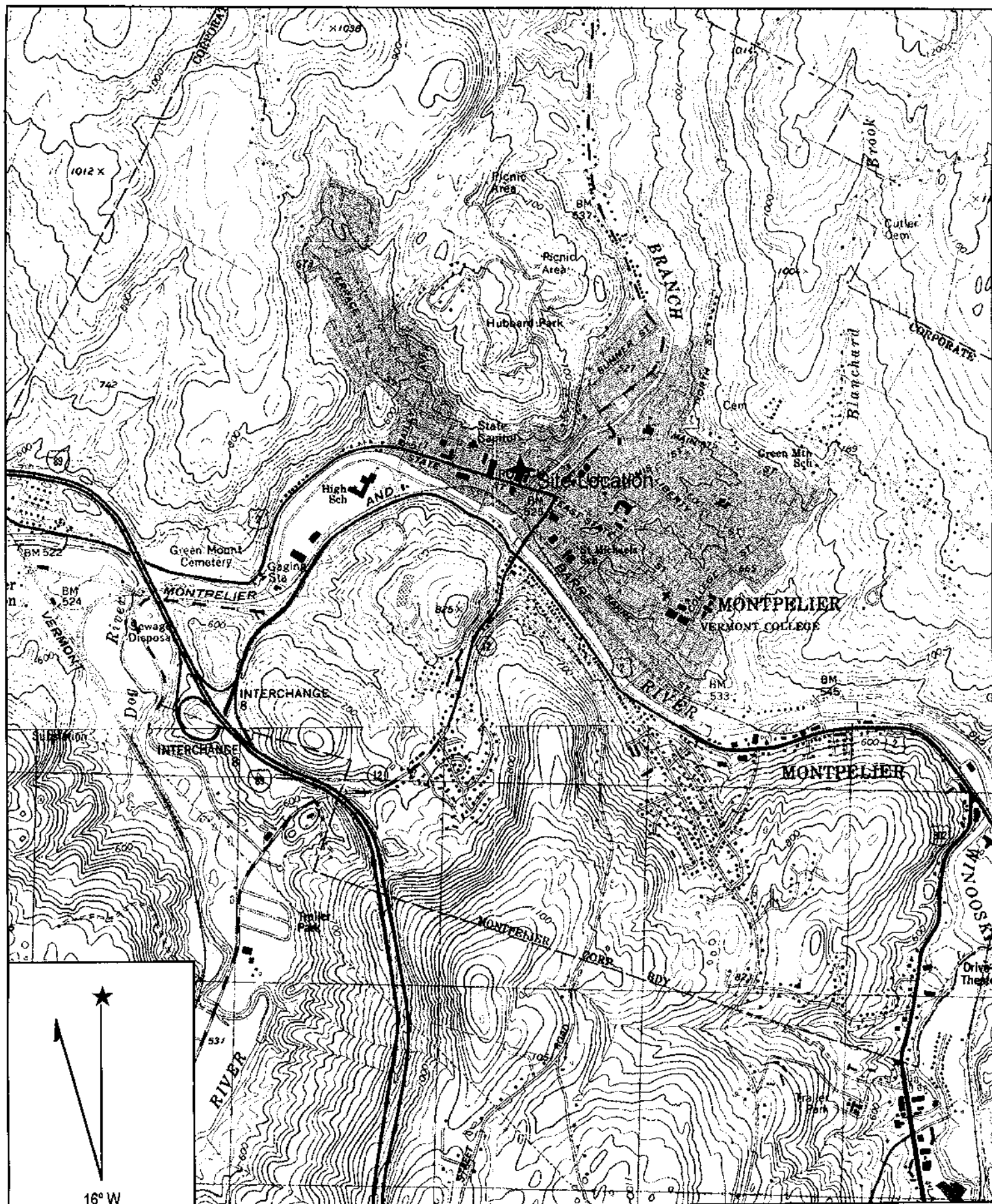
SOIL BORING LOG

PROJECT NAME: Montpelier Federal Building PROJECT #: E1111
 ADDRESS: 87 State Street, Montpelier, Vermont BORING #: SB-2
 DATE COMPLETED: May 19, 2000 SUPERVISED BY: Bill Lammer, EIV
 BORING COMPLETED BY: Green Mountain Boring, East Barre, VT METHOD: Rotary Auger

DEPTH (ft below grade)	SAMPLES					SOIL DESCRIPTION	REMARKS
	No.	Reco- very (ft)	Blow per 6 in	Time	HNU/ OVA (ppmv)		
0						Drilled 1st 1' - top 6" blacktop	
1							
2	S-1	18"	12/7/5/5	845am	0.0	brown SAND and GRAVEL, CLAYEY, trace SILT	PID @ 2.5'
3					0.0		PID @ 3.5'
4	S-2	12"	3/3/13/5			vf brown SILTY SAND, CLAYEY	
5					0.0		PID @ 5.5'
6	S-3	12"	6/3/2/2			shally ROCK at bottom 1" vf brown SILTY SAND, CLAYEY	no odor/no staining
7					0.0	increasing fine SAND w/ depth damp bottom 1/2 recovery	PID @ 7.5'
8	S-4	18"	7/5/3/3		0.0	tan CLAYEY soils w/some fine SILT	no odor/no staining
9					0.0	grey CLAYEY soils w/ increasing	PID @ 8.5'
10	S-5	18"	11/12/ 16/18		0.0	fine SILT to bottom fine GRAVEL	sample damp PID @ 9.5'
11					0.5	apparent Groundwater @ 11.5'	PID @ shoe
12	S-6	18"	13/8/7/5		0.0	bottom 6" WET fine GRAVEL w/ trace SILT	PID @ 11.5'
13					0.0	wet	Soil sample collected PID @ 12.5'
14	S-7	18"	6/5/3/3		0.0		PID @ 13.5'
15					0.0	coarse GRAVELLY SAND	PID @ shoe
16					0.0	wet	PID @ 14.5'
17							PID @ 15.5'
18							
19							
20							
21							

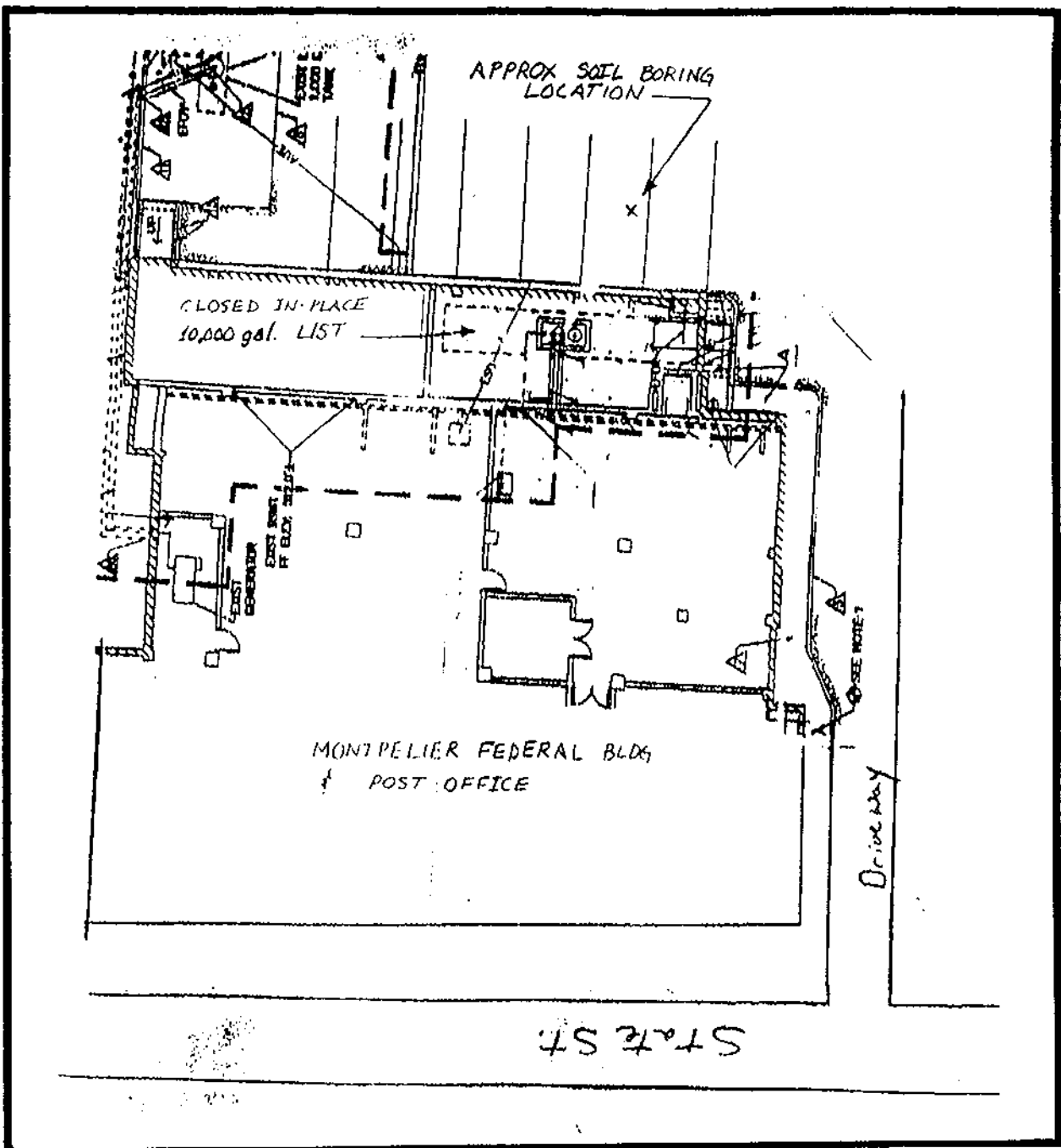
EIV Technical Services, LLC

93 South Main Street • Waterbury, Vermont 05676 • (802) 244-7453



Name: MONTPELIER
 Date: 6/5/2000
 Scale: 1 inch equals 2000 feet

Location: 044° 15' 18.5" N 072° 34' 45.2" W
 Caption: Site Location: Montpelier Federal Building, Montpelier Vermont



NOT TO SCALE

ADAPTED FROM A SKETCH PROVIDED BY
CATAMOUNT CONSTRUCTION, MONTPELIER, VT

Figure 2
Approximate Soil Boring Location
Montpelier Federal Building
Facility ID #2330
Montpelier, Vermont

EIV

TECHNICAL SERVICES, LLC

93 SOUTH MAIN ST.
WATERBURY, VT 05676

June 2000 WDSL
PROJECT NO. E1111



ENDYNE, INC.

E1111
LAB

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

RECEIVED JUN 02 2000

LABORATORY REPORT

EIV Tech. Svcs., Inc.
93 S. Main St.
Waterbury, VT 05676
Attn: Bill Lammer

PROJECT: Montpelier Fed. Building
ORDER ID: 7432
RECEIVE DATE: May 19, 2000
REPORT DATE: May 31, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director



ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: EIV Tech. Svcs., Inc.
PROJECT: Montpelier Fed. Building
REPORT DATE: May 31, 2000

ORDER ID: 7432
DATE RECEIVED: May 19, 2000
SAMPLER: BL
ANALYST: 725

Ref. Number: 155207

Site: Soil Boring @ 11.5'

Date Sampled: May 19, 2000

Time: 9:45 AM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
MTBE	< 20.0	ug/kg, dry	SW 8260	5/26/00
Benzene	< 10.0	ug/kg, dry	SW 8260	5/26/00
Toluene	< 10.0	ug/kg, dry	SW 8260	5/26/00
Ethylbenzene	< 10.0	ug/kg, dry	SW 8260	5/26/00
Xylenes, Total	< 20.0	ug/kg, dry	SW 8260	5/26/00
1,3,5 Trimethyl Benzene	< 10.0	ug/kg, dry	SW 8260	5/26/00
1,2,4 Trimethyl Benzene	< 10.0	ug/kg, dry	SW 8260	5/26/00
Naphthalene	< 50.0	ug/kg, dry	SW 8260	5/26/00
UIP's	0.		SW 8260	5/26/00
Percent Solid	91.	%	SW 8260	5/26/00
Surrogate 1	97.%	%	SW 8260	5/26/00



ENDYNE, INC.

RECEIVED JUN 01 2000

EIII
LAB

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PROJECT: Montpelier Fed. Building
REPORT DATE: May 31, 2000

ORDER ID: 7432
DATE RECEIVED: May 19, 2000
SAMPLER: BL
ANALYST: 128

Ref. Number: 155207	Site: Soil Boring @ 11.5'	Date Sampled: May 19, 2000	Time: 9:45 AM
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<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
TPH 8015 DRO	150.	mg/kg	SW 8015B	5/29/00

Project Name: MONTPELIER FED BLDG, STATE ST. MONTPELIER VT		Reporting Address: EV 93 S MAIN WATERBURY VT 05676	Billing Address: EV
Endyne Order ID: (Lab Use Only)	7432	Company: EV / BILL LAMMER Contact Name/Phone #: 802-244-7453	Sampler Name: BILL LAMMER Phone #: 802-244-7453

[illegible]

Relinquished by: <i>William L...</i>	Date/Time 5/14/00 12:25	Received by: <i>Amos Y...</i>	Date/Time 5-14-00 12:25	Received by:	Date/Time
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New York State Project: Yes _____ No X

Requested Analyses

[illegible]